

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: March 17, 2001, 20:02:33 ; Search time 67.27 Seconds  
(without alignments)  
5174.762 Million cell updates/sec

Title: US-09-456-306-1  
Perfect score: 2160  
Sequence: 1 tttagggcgatctcttgagg.....ggtgccatgagatgcct 2160

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 280836 seqs, 80580151 residues

Total number of hits satisfying chosen parameters: 561672

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08  
Maximum Match 1008  
Listing first 45 summaries

Database : Issued\_Patents\_NA:\*  
1: /cgn2\_6/plodata/2/lna/5A\_COMB.seq:\*  
2: /cgn2\_6/plodata/2/lna/5B\_COMB.seq:\*  
3: /cgn2\_6/plodata/2/lna/6\_COMB.seq:\*  
4: /cgn2\_6/plodata/2/lna/PCRTUS\_COMB.seq:\*  
5: /cgn2\_6/plodata/2/lna/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	87.2	4.0	260	US-08-735-545-24	Sequence 24, Appl
2	60.8	2.8	2641	US-08-452-075-1	Sequence 1, Appl
3	49.4	2.3	2365	US-08-363-208-1	Sequence 1, Appl
4	48.2	2.2	1969	US-07-737-851-1	Sequence 1, Appl
5	48.2	2.2	1969	US-07-737-851-2	Sequence 2, Appl
6	48.2	2.2	1969	US-07-737-851-3	Sequence 3, Appl
7	48.2	2.2	1969	US-07-894-062-1	Sequence 1, Appl
8	48.2	2.2	1969	US-07-894-062-2	Sequence 2, Appl
9	48.2	2.2	1969	US-07-894-062-3	Sequence 3, Appl
10	47.6	2.2	2156	US-08-321-356-1	Sequence 1, Appl
11	47.6	2.2	2156	US-08-321-356-3	Sequence 3, Appl
12	47	2.2	1882	US-08-458-120-1	Sequence 1, Appl
13	47	2.2	1882	US-08-867-970-1	Sequence 1, Appl
14	44.4	2.1	1728	US-08-403-866-12	Sequence 12, Appl
15	44.4	2.1	2231	US-08-403-866-11	Sequence 14, Appl
16	44.4	2.1	12720	US-08-403-866-11	Sequence 11, Appl
17	42.4	2.0	994	US-08-600-993A-57	Sequence 57, Appl
18	39	1.8	2793	US-08-209-747-1	Sequence 1, Appl
19	39	1.8	2793	US-08-458-298-1	Sequence 1, Appl
20	38.4	1.8	993	US-08-245-511-57	Sequence 57, Appl
21	37.4	1.7	7218	US-08-232-463-14	Sequence 14, Appl
22	37	1.7	1659	US-07-662-223-1	Sequence 1, Appl
23	34.6	1.6	3468	US-07-951-715A-2	Sequence 2, Appl
24	34.6	1.6	3468	US-08-459-448A-2	Sequence 2, Appl
25	34.6	1.6	3468	US-08-459-595A-2	Sequence 2, Appl
26	34.6	1.6	3468	US-08-459-504B-2	Sequence 2, Appl
27	34.6	1.6	3468	US-08-459-444-2	Sequence 2, Appl
28	34.6	1.6	3468	US-09-053-549-3	Sequence 3, Appl

29	33.8	1.6	1353	2	US-08-611-280-1	Sequence 1, Appl
30	33.8	1.6	2824	2	US-09-010-928B-3	Sequence 3, Appl
31	33.2	1.5	2538	1	US-07-839-433-1	Sequence 1, Appl
32	33.2	1.5	13987	2	US-08-804-227C-13	Sequence 13, Appl
33	33.2	1.5	44377	2	US-08-804-227C-7	Sequence 7, Appl
34	33.2	1.5	44377	2	US-08-804-198-1	Sequence 1, Appl
35	32.8	1.5	2214	3	US-08-864-038A-1	Sequence 1, Appl
36	32.8	1.5	3331	3	US-08-864-038A-2	Sequence 2, Appl
37	32.8	1.5	3331	3	US-08-864-038A-4	Sequence 4, Appl
38	32.8	1.5	3468	1	US-07-951-715A-4	Sequence 4, Appl
39	32.8	1.5	3468	2	US-08-459-448A-8	Sequence 8, Appl
40	32.8	1.5	3468	2	US-08-459-448A-4	Sequence 4, Appl
41	32.8	1.5	3468	3	US-08-459-595A-4	Sequence 8, Appl
42	32.8	1.5	3468	3	US-08-459-595A-8	Sequence 4, Appl
43	32.8	1.5	3468	3	US-08-459-504B-8	Sequence 4, Appl
44	32.8	1.5	3468	3	US-08-459-504B-4	Sequence 4, Appl
45	32.8	1.5	3468	3	US-08-459-504B-8	Sequence 8, Appl

## ALIGNMENTS

RESULT 1  
US-08-735-545-24/c  
Sequence 24, Application US/08735545  
Patent No. 6025131  
GENERAL INFORMATION:  
APPLICANT: Van Dyk, Tina K.  
TITLE OF INVENTION: A Facile Method for  
TITLE OF INVENTION: Identifying Regulated  
TITLE OF INVENTION: Promoters  
NUMBER OF SEQUENCES: 28  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: E. I. DU PONT DE NEMOURS  
ADDRESSEE: AND COMPANY  
STREET: 1007 MARKET STREET  
CITY: WILMINGTON  
STATE: DELAWARE  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 19898  
COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.50 INCH  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: MICROSOFT WINDOWS 3.1  
SOFTWARE: MICROSOFT WORD 2.0C  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/735,545  
FILING DATE:  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: FLOYD, LINDA A.  
REGISTRATION NUMBER: 33,692  
REFERENCE/DOCKET NUMBER: CR-9989  
TELEPHONE: 302-892-8112  
TELEFAX: 302-773-0164  
INFORMATION FOR SEQ. ID NO.: 24:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 260 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
ORIGINAL SOURCE:  
STRAIN: dpd3509 lower  
US-08-735-545-24

Query Match 4.0% Score 87.2; DB 3; Length 260;  
Best Local Similarity 58.5% Pred. No. 9.9e-18;  
Matches 152; Conservative 0; Mismatches 108; Indels 0; Gaps 0;





RESULT 6  
US-07-737-851-3  
Sequence 3, Application US/07737851  
Patent No. 5731180  
GENERAL INFORMATION:  
APPLICANT: Gabriele Dietrich  
TITLE OF INVENTION: Imidazoliopone Resistant  
TITLE OF INVENTION: AHas Mutants  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESSES:

	Query Match	2.28	Score 48.2	DB 1	Length 1969
	Best Local Similarity	43.88	Pred. No. 4.6e-05		
	Matches 313	Conservative 0	Mismatches 393	Indels 9	Gaps
QY	459	caagttcgaaatlgaggaagcgcgcgcytlltcagccgcgtgcgagatcgtltgatactg	518		
Db	358	CTCTCCGCCACGAGCAAGGGAAGCCCTTTCCGCCCTCCGGCTACGGCGGCTCTCGGGC	411		
QY	519	gagctggagaatgtgcgtcttcttggtcttgaaacacccctgatctgaagctct	578		
Db	418	CGCGTCGCCGCTCTGCATCGCCATCTCGGCCCCGGCCGACCAACCTAGTCCTCGCCCTC	477		
QY	579	tatgattcgacatcgaaatgctgcgaaagtggttgcacatcgcatgacatctcagctg	638		
Db	478	GCCACGCGGCTGCTCGATTCGTCGCCATGGTGCATCAAGGACAGGTGGCGCGACGC	537		
QY	639	caggttgttgcgaagcttcttcaggaagaacgataccgagatattgtttaagaaatgctc	698		
Db	538	ATGATTGGACCGACGCCCTTCCAGAGAGAGCCCATCTGTGAGGTGACCCGCTCCATACC	597		
QY	699	gattacttcgagatgcatgtaatgctgctgagcgaaggttgaaacgaatttcgatacgcg	758		
Db	598	AAGCAACAACCTACCTGCTCTCTGCAGCTGACATATCCCGCGCTGCTGAGGAGCGTTTC	657		
QY	759	cagtcacacatggcgggttaaaagtgtgttcggttgaaigtatcttcctgltgatatcgtaa	818		
Db	658	TTCTCGCTCTCTTGTGTCGACGACGGGCGGGTGGTTTGACATATCCCAAGACATCCAG	717		
QY	819	gaagacgcaggtgacgttacttacttcaacttcaacttcttcctgcactccctgtgtg	878		
Db	718	CAGCAGATGGGGGCTGCTGTGAGGAACAAGCCATAGTCTGCTGGGTACATTGGCGCG	777		
QY	879	ttcccgatcctactgaagctgcagcgcgtgtgtgagcgatatacaacgct-----a	930		
Db	778	CTTCCCAAGGCCCTCTGGACGTGATCTTCTTACAGAGGTGCTGGCTCTTGTGGTGATCG	837		



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; TOPOLOGY: Linear
; MOLECULE TYPE: DNA and Protein
US-07-894-062-2

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Query Match	Score	DB 1	Length
2.28;	48.2;	DB 1;	1969;

QY	459	caagctcgaatctggaagaaagcggcgagcttctcaacgcggctcgagatcgtttgatcaactcgg	518
Db	358	CTTCTCCGCCACGAGCAAGGGGAGGCGCTTTGGCGGCTCTACGGGCTTACGGGGCTCTCGCGGC	417
QY	519	gaagctgcagtaatgtctgctctcttctgtgtctctgtgaaacacacactgatacgaagtctt	578
Db	418	CGCGTCGGCGCTCCATCCGACCCCTCCGGCCCGCGCCACCAACTGTTCTCCGGCTC	477
QY	579	tatgattcgactcgaaatgtgtgcgaaggtgtttgacactgctaaacctattccgagtgcc	638
Db	478	GCCACACGGCGTGCCTCGATTCGCTCCGTCGTCATGGTCCCATTCACGGGACAGGTGCCCGACGC	537
QY	639	caagatggttctgcacgtctcttccagaagaaacgcatccgagatattgttlaagaaatgctct	698
Db	538	ATGATTTGGACACCGACGCGCTTCCAGAGAACGCGCCATCTGTCGAGTCCACCGCTCCATCACC	597
QY	699	ggttactcgcgaagtgtggaatgtgtgtgtgcagcaggtgtbaagcatttgcactcaagcgaat	758
Db	598	AAGCACAACTACCTGGTCTCTCGACGTGCAGACATCCCGCGCTCGAGGAGGCTTTC	657
QY	759	caagtcacacatgagcgggtlaaagtgatgtcggtgtatgtatctcctgtgtatctgcgtaa	818
Db	658	TTCTCGGCTCTCTTGGTTCGACCGGGGCGGTCGTTTTCACATCCCAAGACATCCAG	717
QY	819	gaagaacgcgaagtgcaggaacttattccaatccaattattctctctgtgacactcctgttg	878
Db	718	CAGCAGATGGGGTGCTGTCTGTGGACAACCCCATGTGCTGGCTGGTACATTTGGCGCG	777
QY	879	ttcccgatcctactagatgcgtgcagcctgtgtgaagcgaat	919
Db	778	CTTCCCAAGCCCTCTGCAGCTGAAGTTCCTTGAGGAGGTGCT	818

RESULT 99  
US-07-894-062-3  
Sequence 3, Application US/07894062  
Patient No. 5767361  
GENERAL INFORMATION:  
APPLICANT: Gabriele Elfriede Dietrich  
TITLE OF INVENTION: Imidazolinone Resistant  
TITLE OF INVENTION: AHAS Mutants  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Karen A. Lowmyer  
ADDRESS: American Cyanamid Company  
STREET: 1937 West Main Street  
STREET: P.O. Box 60  
CITY: Stamford  
STATE: Connecticut  
COUNTRY: USA  
ZIP: 06904-0060  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy Disk  
COMPUTER: IBM PC AT  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: ASCII from IBM DW 4  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/894,062  
FILING DATE: 19920608  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 07/737,851  
FILING DATE: 07/31/91  
ATTORNEY/AGENT INFORMATION:

```

? NAME: Lowney, Karen A.
? REGISTRATION NUMBER: 31,274
? REFERENCE/DOCKET NUMBER: 31440-01
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 203 321 2361
? TELEFAX: 203 321 2971
? TELEX: 710 474 4059
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1969 BP's and 638 Amino Acids
? TYPE: NUCLEOTIDE AND AMINO ACID
? STRANDEDNESS: Single
? TOPOLOGY: Linear
? MOLECULE TYPE: DNA and Protein
?
US-07-894-062-3

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Query Match	2.2%;	Score 48.2;	DB 1;	Length 1969;
Best Local Similarity	43.8%;	Pred. No. 4.6e-05;		
Matches 313; Conservative	0;	Mismatches 393;	Indels 9;	Gaps 2;

OY	459	caagttcgaatctggaggaagcgagcgagcttttgcagccggttgcgaatccgtttgatacattg	518
Db	358	CTTTCGCCCCAGCAAGGAGGAGCGCTTTGCCGCCCTTCGGGTACGCGGCGTCTCGGCG	417
OY	519	gagctgycagatgtgtcgtcttcttctgtgtcgttcgtgaacacacactgaattcaagttctt	578
Db	418	GCGCGCGCGCTTCATCGCCACCTCCGGCGCCGGCGCCACCAACTTAATCTCCGGGCTC	477
OY	579	tatgattcgacatcgaaatgtgtcgaaagtgtttgccaatcgatcgacataatccagatgcc	638
Db	478	GCCGACGGCGTGTCTCGATTCGATCCGTCGCCATGTCGCATACGAGGAAAGGTGCCGAGCC	537
OY	639	cagattgtttcgacggtttcttcacgaagacgcatacgcgaagaatttgtttaagaatgcttc	698
Db	538	ATGATTTGGCACCGACGCGCTTTCAGAGAACCCCATGTCAGAGTCAACCGCTCCATACAC	597
OY	699	ggttaactgcgaatgagtgatgtgtgtgtgtgacgaagtgaaagcaatttgatacagcgtt	758
Db	598	AAGCAACAATCACTCGTGTCTTCGACGTGACAGCATCCCGCGTGTGACGAGAGGCTTTC	657
OY	759	cagtccacatctgcgcggttaaagbtygttcggtgtgtagtgaattccctgtgtatctgtaa	818
Db	658	TTTCMCGCTCTCTCTGTGTCACAGCGGCCGTCCTTGTGCATCCCAAGACATCCAG	717
OY	819	gaagacgcaggtgcagttacttattccaattccactatttcttcgacctctgtgtg	878
Db	718	CAGCAGATGGCGGTGCTGTCTGTGGACAAACCCATAGTCTGCTGGTACATTTGGGGCC	777
OY	879	ttcccgagatccctaactgtgagcttgcagcgttgttgaagcgattaaacaagct-----a	930
Db	778	CTTCCCAAGCCCCCTCGGACTGTGAGTTGCTTGACAGAGTGCTGTGCTTGTGTGATMG	837
OY	931	agctgtgcactttgttcttgcgtgtgtgcggtgtgaagaatc-ctcgcgcgcaggtgtgtga	989
Db	838	CGGCGCCCTGTTCTTTATGTGTGGCGGGTGGCTGGCGACATTCGTGTAGGAGATTGGACCC	897
OY	990	ttggcggagagaagatlaataatccacatcgatcgacagcgttgggtgaagaagfatatacga	1046
Db	898	TTTGTGGAGTGACATGGAATCCCGGTCACACACTCTTATATGGGCTCGGCAACTTCCCC	957
OY	1050	catbagaatccgttttgagtcgcgcgatgtcgtgcctgtgttgaagcgcgctgcgtgagat	1105
Db	958	AGCAGACACCCACTGCTGTCTGCGCATGCTAGTATCATAGGAGACGGTATGTCAAATTAT	1011
OY	1110	ggcttcaaatbaggagatctgcgcgattctatctatgtgtgaaggaatttccattatctg	1164
Db	1018	GCACTGATTAAGGCGCATCTGTTGCTTGCTTGCACTTGGTGTCGCTGGTTGATGATCGTG	1072

RESULT 10  
US-08-321-356-1  
; Sequence 1, Application US/08321356







MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/403,866  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.  
REGISTRATION NUMBER: 30, 727  
REFERENCE/DOCKET NUMBER: 20747/30  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1487  
TELEFAX: (716) 263-1600  
TELEX: 978450 (WUT)  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1728 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: Lactococcus lactis subsp. lactis  
INDIVIDUAL ISOLATE: 11VB  
US-08-403-866-12

Query Match 2.1%; Score 44.4; DB 1; Length 1728;  
Best Local Similarity 52.7%; Pred. No. 0.00065;  
Matches 96; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

QY 1551 ggcacgatggcctaagtcgctgcctcagatggtgcgcaaaagtcttgatcgaaaccgc 1610  
DB 1255 ggaacgatggccttggcatttcttcgcagcaatgcgtgcaaaagtcgcacgccaattaaa 1314  
QY 1611 cagtgatcgcgatgctgctgcctcagatggtgcgcaaaagtcttgatcgaaaccgc 1670  
DB 1315 aatgtcattgtttgttgccatgctgcttcaaatgacatcaagcaatttaagcattta 1374  
QY 1671 gtttaagctgcacaaacttcgcgtgaagcgctggtgtttaaacaagcttcttgggcattg 1730  
DB 1375 cttaaatgcctaccgatttgcattcaaaagttgctgatttaattatcattcattggcaattg 1434  
QY 1731 gt 1732  
DB 1435 gt 1436

RESULT 15  
US-08-403-866-14  
Sequence 14, Application US/08403866  
Patent No. 5643779  
GENERAL INFORMATION:  
APPLICANT: Enlilich, Stanislaw  
APPLICANT: Godon, Jean-Jacques  
APPLICANT: Renault, Pierre  
TITLE OF INVENTION: Nucleic acid coding for an alpha-acetolactate  
synthase from Lactococcus and its applications  
NUMBER OF SEQUENCES: 16  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/403,866  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Goldman, Michael L.

REGISTRATION NUMBER: 30, 727  
REFERENCE/DOCKET NUMBER: 20747/30  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (716) 263-1600  
TELEFAX: (716) 263-1487  
TELEX: 978450 (WUT)  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2231 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ORIGINAL SOURCE:  
ORGANISM: Lactococcus lactis subsp. lactis  
INDIVIDUAL ISOLATE: 11VB  
US-08-403-866-14

Query Match 2.1%; Score 44.4; DB 1; Length 2231;  
Best Local Similarity 52.7%; Pred. No. 0.00075;  
Matches 96; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

QY 1551 ggcacgatggcctaagtcgctgcctcagatggtgcgcaaaagtcttgatcgaaaccgc 1610  
DB 1273 ggaacgatggccttggcatttcttcgcagcaatgcgtgcaaaagtcgcacgccaattaaa 1332  
QY 1611 cagtgatcgcgatgctgctgcctcagatggtgcgcaaaagtcttgatcgaaaccgc 1670  
DB 1333 aatgtcattgtttgttgccatgctgcttcaaatgacatcaagcaatttaagcattta 1392  
QY 1671 gtttaagctgcacaaacttcgcgtgaagcgctggtgtttaaacaagcttcttgggcattg 1730  
DB 1393 cttaaatgcctaccgatttgcattcaaaagttgctgatttaattatcattcattggcaattg 1452  
QY 1731 gt 1732  
DB 1453 gt 1454

Search completed: March 17, 2001, 21:10:19  
Job time: 4066 sec

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